| <br> | <br>laims |  |
|------|-----------|--|
|      | 7, 1999   |  |

| Application No. | Applicant(s) |
|-----------------|--------------|
| 09/912,130      | FELTS ET AL. |
| Examiner        | Art Unit     |
| Shawn S An      | 2613         |

| <b>√</b> | Rejected |
|----------|----------|
| 11       | Allowed  |

| _        | (Through numeral)<br>Cancelled |
|----------|--------------------------------|
| <b>±</b> | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

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|--|---|------------------|----------|----------|------------|----------|----------|----------|--|----------|
|  | •   | _                |          |          | _          | D = 4    |          |          |  | _        |
| Cla  | $\vdash$  | _                |          | r        | Dat        | <u>e</u> |          |          | ᆔ  |          |
| Final  | Original  | 1/5/25           |          |          |            |          |          |          |  |          |
|  | 1   | <b>沙</b>         | $\vdash$ | 一        | ╁          | $t^-$    |          | ┢        | <del>                                     </del> | Н        |
|  | 2   | \<br>\<br>\<br>\ | $\vdash$ | ┢        | ┢          | t        | 1        | $\vdash$ | $\vdash$   | H        |
|  | 3   | ٥                | $\vdash$ | ┢        | Н          | $\vdash$ |          | H        | $\vdash$   | Н        |
| $\vdash$   | 4   | -                | ┢        | ┪        | H          | t        | <u> </u> | ┢        | H  | Н        |
| $\vdash$   | 5   |                  | $\vdash$ | $\vdash$ | $\vdash$   | H        | $\vdash$ | $\vdash$ | -  | Н        |
|  | 6   | Н                | $\vdash$ | $\vdash$ | $\vdash$   | H        | $\vdash$ | $\vdash$ | ┢  | Н        |
|  | 7   |                  | $\vdash$ | 1        |            |          |          |          | ┢  | Н        |
|  | 8   | ┪                | $\vdash$ |          |            | T        | t        |          | ┢  | Н        |
|  | 9   | Г                |          |          |            |          |          | $\vdash$ |  | Н        |
|  | 10  | Г                |          | Т        | Г          | T        | $\vdash$ | Т        | Г  | П        |
|  | 11  | $I^-$            |          |          |            | Г        |          |          | Г  |          |
|  | 12  |                  |          |          |            | Г        | П        | П        |  | П        |
|  | 13  |                  |          |          |            |          |          |          |  | П        |
|  | 14  |                  |          |          |            |          |          |          |  |          |
|  | 15  |                  |          |          |            |          |          |          |  |          |
|  | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21 |                  |          |          |            | L        |          |          |  |          |
|  | 17  |                  |          |          |            | L        |          |          |  |          |
|  | 18  |                  |          | L        | 匚          | L        | L        | Ĺ        | L  |          |
| Ш  | 19  | L                | L        | 匚        | L          | L        | L        | L        |  | Ш        |
|  | 20  |                  |          | <u>L</u> | <u> </u>   | _        | L        |          |  | Ш        |
|  | 21  |                  |          | L        |            | _        | L        | _        | _  | Щ        |
| $\sqcup$   | 22  | lacksquare       | _        |          | _          | _        | ╙        | L.       | <u> </u>   | Ш        |
| 1  | 22<br>23<br>24<br>25<br>26<br>27<br>28<br>29  | _                |          | L        |            | _        |          |          |  | Ш        |
| $\vdash$   | 24  | _                |          | <u> </u> | <b> </b> - | <u> </u> | <u> </u> | <u> </u> | <u> </u>   | Н        |
| <del>                                     </del> | 25  | Н                |          | _        | <u> </u>   | <u> </u> | <u> </u> | <u> </u> | <u> </u>   |          |
| ┝  | 20  | $\vdash$         |          |          | ┡          | <u> </u> | <u> </u> | _        | Н  |          |
| $\vdash$   | 2/  | Н                | _        | -        |            | ⊢        | ┝        | <u> </u> | -  | $\vdash$ |
| $\vdash$   | 20  | Н                |          |          | ⊢          | ⊢        | -        | $\vdash$ | -  | -        |
| $\vdash$   | 29  | Н                |          | -        |            |          | <u> </u> | H        |  | -        |
| $\vdash$   | 30<br>31  | Н                | -        |          | ├          | _        | ├        | $\vdash$ | _  | $\vdash$ |
| $\vdash$   | 32  |                  | -        | _        | -          | $\vdash$ | $\vdash$ | $\vdash$ |  | $\vdash$ |
| $\vdash$   | 33  | Н                |          |          |            | -        | $\vdash$ | $\vdash$ |  | Н        |
|  | 33<br>34  | -                |          |          |            | -        |          |          |  |          |
|  | 35  |                  |          |          |            |          |          |          |  | Н        |
|  | 36  |                  | _        |          | _          |          | _        |          | $\overline{}$                                    | П        |
| $\vdash$   | 36<br>37  |                  |          |          |            |          | _        |          |  | П        |
|  | 38  |                  |          |          |            |          |          |          |  | T        |
|  | 38<br>39  |                  |          |          |            |          |          |          |  |          |
|  | 40  |                  |          |          |            |          |          |          |  | П        |
|  | 41  |                  |          |          |            |          |          |          |  |          |
| $oxed{oxed}$                                     | 42  |                  |          |          |            |          |          |          |  |          |
|  | 43  |                  |          |          |            |          |          |          |  |          |
| $\sqcup \bot$                                    | 44  |                  |          |          |            |          |          |          |  |          |
| <b> </b>   | 45  |                  | _        |          | L          |          |          |          |  | $\Box$   |
| $\vdash \vdash$                                  | 46  |                  | _        |          | Щ          | Щ        |          | Ш        |  | Щ        |
| $\vdash$   | 47  | _                |          | _        |            |          | Ш        |          | _  | $\dashv$ |
|  | 48  |                  | 4        | _        | _          | -        | _        |          | $\dashv$   | $\dashv$ |
|  | 49  | $\dashv$         | _        | _        | $\dashv$   | _        | _        |          | _  |          |
| LI   | 50  |                  |          |          |            | Ш        |          |          |  |          |

|                      |                            |              |  |              |              | J  | ـــــــ      | <u>.                                    </u> |              |          |
|----------------------|----------------------------|--------------|--|--------------|--------------|--|--------------|--|--------------|----------|
| -                    |                            | 1            |  | _            |              | <u> </u>   |              |  |              |          |
| Cla                  | aim                        | _            |  | _            |              | <u>Dat</u>                                       | ę_           |  | ,            |          |
| Final                | Original                   |              |  |              |              |  |              |  |              |          |
|                      | 51                         |              |  | <u> </u>     | T            | T  | t            |  |              | t        |
|                      | 51<br>52<br>53             | Г            | ⇈  |              | П            | T  |              |  | Г            |          |
|                      | 53                         |              |  |              |              |  |              |  |              |          |
|                      | 54                         |              |  |              |              |  |              |  |              |          |
| <u></u>              | 55                         |              | <u> </u>   |              | <u> </u>     | <u> </u>   | <u> </u>     | <u> </u>                                     | <u> </u>     | <u> </u> |
| <u> </u>             | 56                         | _            | <u> </u>   | _            | ↓_           | <u> </u>   | _            | ┖  | _            | ┡        |
|                      | 57                         | <u> </u>     | ⊢  | H            | ┞            | $\vdash$   | ⊢            | ⊢  | ⊢            | ├        |
| -                    | 58<br>59                   | -            | ┝  |              | ⊢            | ⊢  | ╁            | ⊢  | ⊢            | ┢        |
|                      | 60                         | ╁            | $\vdash$   | <del> </del> | ╁╌           | -  | ╁            | ┢  |              | ┢╌       |
| <b></b>              | 61                         | 一            | <del>                                     </del> |              | $\vdash$     | $\vdash$   | ╁╴           | ╁╌   | <del> </del> | ╁        |
|                      | 61<br>62                   |              | t  |              |              | <del>                                     </del> | t            | H  |              | H        |
|                      | 63<br>64<br>65             |              |  |              |              |  |              | T  |              | T        |
|                      | 64                         |              |  |              |              |  |              |  |              |          |
| <u></u>              | 65                         |              | L  |              |              | <u> </u>   | <u> </u>     |  |              |          |
|                      | 66<br>67                   | ļ            |  | <u> </u>     | <u> </u>     | <u> </u>   | <u> </u>     | ┞  | _            | <u> </u> |
| -                    | 68                         | <u> </u>     | ┝  | -            | -            | <u> </u>   | -            | ├  | <u> </u>     | ├        |
|                      | 60                         | -            |  | ⊢            | ├            | ╁  | ├            | ⊢  | ├            | ╀        |
|                      | 69<br>70                   | -            | $\vdash$   | ┢            | ┢            | <del> </del>                                     | -            | $\vdash$                                     | ├─           | ⊢        |
|                      | 71                         |              | <del>                                     </del> | ┢            | <del> </del> | <u> </u>   | $\vdash$     | ┢  |              | $\vdash$ |
|                      | 72                         |              |  |              | T            | t  | 1            |  | 1            | H        |
|                      | 71<br>72<br>73<br>74<br>75 |              |  |              | Г            | $\vdash$   | $\vdash$     |  |              | ┢        |
|                      | 74                         |              |  |              |              |  |              |  |              |          |
|                      | 75                         | _            | _  | L            |              |  | L            |  |              | <u> </u> |
|                      | 76                         | <u> </u>     | _  | L            | L            | <u> </u>   | _            | _  | <u> </u>     |          |
|                      | 77<br>78                   | ┝            | ┝  | <u> </u>     | L            | <b> </b>   | ├            | ⊢  |              | $\vdash$ |
|                      | 79                         |              | ┢  | <u> </u>     | -            | ├-   | _            | ⊢  | -            | ⊢        |
| <u> </u>             | 80                         | <del> </del> | ┝╌   | -            | $\vdash$     | -  | <del> </del> | $\vdash$                                     | -            | $\vdash$ |
| _                    | 81                         | $\vdash$     | $\vdash$   | $\vdash$     | ┢            | <del>  -</del>                                   | ┪            | $\vdash$                                     | -            | $\vdash$ |
|                      | 82                         |              |  |              |              |  | 1            | $\vdash$                                     |              | H        |
|                      | 82<br>83                   |              |  |              |              |  |              |  |              |          |
|                      | 84                         |              |  |              |              |  |              |  |              |          |
|                      | 85                         | _            | Ш  |              | _            | <u> </u>   |              | _  |              | _        |
| <u> </u>             | 86                         | _            | L  | _            | _            | ļ_   | _            | <u> </u>                                     |              | <u> </u> |
|                      | 87                         |              | <u> </u>   |              | -            | <u> </u>   | ├—           | <u> </u>                                     | _            | _        |
|                      | 88<br>89                   |              | _  |              | -            | ┝  | ┢            | <b> </b>                                     | $\vdash$     | -        |
|                      | 90                         |              |  | -            | ┢            | -  | $\vdash$     | -  |              | ⊢        |
|                      | 91                         | _            |  |              | $\vdash$     | ┢  |              | _  |              | ┝        |
|                      | 92                         |              |  |              |              |  |              |  | П            | 一        |
|                      | 93                         |              |  |              |              |  |              |  |              |          |
| $oxed{oxed}$         | 94                         | Щ            |  |              |              | L  |              |  |              | L        |
| $\sqcup \sqcup$      | 95                         |              | Щ  |              |              | <u> </u>   |              |  |              | L        |
| <del></del>          | 96                         |              | Щ  |              | H            | _  | H            |  |              |          |
| $\vdash$             | 97<br>98                   | Н            | _  | _            | $\vdash$     |  | $\vdash$     | _  |              | _        |
| $\vdash \vdash \mid$ | 99                         |              | -  | -            | _            | -  | $\vdash$     | $\vdash$                                     | $\vdash$     |          |
| $\vdash$             | 95                         | _            |  |              |              |  | ш            | $\vdash$                                     | $\Box$       | $\vdash$ |

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| Cl    | aim   | Date         |  |                 |              |          |  |              |  |          |
|-------|---|--------------|--|-----------------|--------------|----------|--|--------------|--|----------|
| Final | Original                                      |              |  |                 |              |          |  |              |  |          |
|       | 101   |              |  |                 |              |          | İ  |              |  |          |
|       | 102   |              |  |                 |              |          |  |              |  |          |
|       | 103   |              |  |                 |              |          |  |              |  |          |
|       | 104<br>105                                    | 匚            | $oxed{oldsymbol{oldsymbol{oldsymbol{eta}}}}$ | <u></u>         | <u> </u>     | <u> </u> |  | _            |  |          |
|       | 105   |              | <u> </u>                                     | L               | <u> </u>     | _        |  | ┖            | L_   |          |
|       | 106<br>107                                    | L            | ╙  | _               | <u> </u>     | ╙        | <u> </u>   | <u> </u>     | L  | L        |
|       | 107   | <u> </u>     | ├  | <b>├</b>        | <u> </u>     | ┞        | ┞  | ┡            | ├_   | ╙        |
|       | 108   | ├            | ⊢  | ┢               | ┝            | ┢        | ⊢  |              | $\vdash$   | ⊢        |
|       | 110   | ⊢            | ⊢  | ┢               | ┢            | ╁        | -  | ╁            | ⊢  | -        |
|       | 111   | $\vdash$     | ┢  | ╁               | ┢┈           | ╁╌       | ⊢  | ┢            | $\vdash$   | $\vdash$ |
| -     | 109<br>110<br>111<br>112<br>113<br>114<br>115 | $\vdash$     | $\vdash$                                     | t               | ╁╌           | H        | $\vdash$   | H            | $\vdash$   | $\vdash$ |
|       | 113   |              | $\vdash$                                     | T               | T            | T        | Т  | Т            | $\vdash$   |          |
|       | 114   |              |  | T               | Т            | Τ        | T  | T            | 1  | П        |
|       | 115   |              |  |                 |              |          |  |              |  |          |
|       | 116   |              |  |                 |              |          |  |              |  |          |
|       | 117<br>118                                    |              |  | $oxed{oxed}$    |              |          |  |              |  |          |
|       | 118   | <u> </u>     | ╙  | _               | L.           | _        |  | <u> </u>     | 匚  |          |
|       | 119   | _            | ╙  |                 | 1_           | <u> </u> | L  | <u> </u>     | ╙  | <u> </u> |
|       | 120<br>121                                    | _            | ╙  | <u> </u>        | 1_           | _        | <u> </u>   | <u> </u>     |  |          |
|       | 121   | ⊢            | ⊢  | ├-              | <b>—</b>     | ├        | <u> </u>   | <u> </u>     | _  | L        |
|       | 122<br>123<br>124<br>125<br>126<br>127        | ⊢            | ⊢  | ⊢               | -            | -        | ⊢  | ├            | -  | <u> </u> |
|       | 123   | ⊢            | ┢  | -               | ⊢            | -        | ⊢  | -            |  | H        |
|       | 125   | H            | -  |                 | <del> </del> | ┢        | H  | ┢            | ┢  | $\vdash$ |
|       | 126   | -            | ╁╴   | $\vdash$        | -            | H        |  | ╌            | H  | -        |
|       | 127   |              |  |                 | -            | $\vdash$ |  | $\vdash$     | <del>                                     </del> | $\vdash$ |
|       | 128   |              |  | <b>-</b>        | $\vdash$     | 一        |  |              | _  | Н        |
|       | 128<br>129                                    |              |  |                 |              |          | T  | İ            | T  |          |
|       | 130   |              |  |                 |              |          |  |              |  |          |
|       | 131<br>132                                    |              |  |                 |              |          |  |              |  |          |
|       | 132   | <u> </u>     |  | _               |              | _        | ļ  |              |  |          |
|       | 133   | <u> </u>     | _  | L               | _            | L.       | _  | _            | <u> </u>   | Ш        |
|       | 134   | <u> </u>     | <u> </u>                                     | <u> </u>        | <u> </u>     | <u> </u> |  | _            | _  | Щ        |
|       | 135   | -            | L  |                 | ⊢            | <u> </u> | _  | <u> </u>     | _  | Н        |
|       | 136<br>137                                    | <u> </u>     | <u> </u>                                     | ⊢               | -            | $\vdash$ | ⊢  | ┝            | ├-   | Н        |
|       | 138   | ⊢            | -  | -               |              | ⊢        | ⊢  | ├            | ┝  | Н        |
|       | 139   | <del> </del> |  | -               |              | ├─       | $\vdash$   | -            | ⊢  | Н        |
|       | 140   | $\vdash$     | $\vdash$                                     | 1               |              |          | -  | $\vdash$     | $\vdash$   | Н        |
|       | 141   |              | $\vdash$                                     |                 | _            | <u> </u> | <del>                                     </del> | $\vdash$     | -  | Н        |
|       | 142   |              |  | $\vdash$        | $\vdash$     | Г        | Т  | $\vdash$     | Г  | H        |
| 1     | 143   |              |  |                 |              |          |  |              |  |          |
|       | 144   |              |  |                 |              |          |  |              |  |          |
| ]     | 145   |              |  |                 |              |          |  |              |  |          |
|       | 146   | Ш            | Ш  |                 | Щ            | Щ        |  | $oxed{oxed}$ |  | Ш        |
|       | 147   | Щ            | Щ  | Щ               |              | L        |  | L            |  | Щ        |
|       | 148   | $\vdash$     | Щ  | Ь.              |              | H        |  | _            |  | $\Box$   |
|       | 149   |              | Щ  | $\vdash \vdash$ |              |          | _  | H            | <u> </u>   | Щ        |
|       | 150   |              |  |                 |              |          |  |              |  |          |